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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------------|-------------|----------------------|---------------------|------------------|
| 10/538,937 | 12/09/2005 | Yasuhiro Kasama | 8075-1010 | 5930 |
| 466 | 7590 | 09/25/2007 | EXAMINER | |
| YOUNG & THOMPSON | | | ROGERS, DAVID A | |
| 745 SOUTH 23RD STREET | | | ART UNIT | PAPER NUMBER |
| 2ND FLOOR | | | 2856 | |
| ARLINGTON, VA 22202 | | | | |
| MAIL DATE | | DELIVERY MODE | | |
| 09/25/2007 | | PAPER | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | |
|------------------------------|------------------------|---------------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 10/538,937 | KASAMA ET AL. |
| | Examiner | Art Unit |
| | David A. Rogers | 2856 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 11 June 2007.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-11 and 27-41 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 1-11 and 27-41 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____
- 4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
- 5) Notice of Informal Patent Application
- 6) Other: _____

DETAILED ACTION***Election/Restrictions***

1. Restriction is required under 35 U.S.C. 121 and 372. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In accordance with 37 C.F.R. 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 2, 3, 29, and 30, drawn to a light sensor.

Group II, claim(s) 4 and 31, drawn to a temperature sensor.

Group III, claim(s) 5 and 32, drawn to a humidity sensor.

Group IV, claim(s) 6 and 33, drawn to an ultrasonic sensor.

Group V, claim(s) 7 and 34, drawn to a pressure sensor.

Group VI, claim(s) 8, 9, 28, 35, and 36, drawn to a sensor having a conductive polymer with one molecule modified by an ion group.

Group VII, claim(s) 10, 11, 37, and 38, drawn to a sensor formed as a linear member.

Group VIII, claim 39, drawn to a sensor having a receiving part formed of n-type semiconductor, a p-type semiconductor layer, and a transparent electrode coating on the p-type semiconductor layer.

Group IX, claims 40 and 41, drawn to a microsyringe having plural linear bodies and multifunctional end face having a high-density sensor array.

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2. With regard to claims 1-11 and 27-38 it is noted that Groups I-VII are not so linked as to form a single general inventive concept under since claims 1 and 27 are anticipated by or otherwise obvious over United States Patent 4,587,840 to Dobler *et al.* Dobler *et al.* discloses a linear body formed of a center conductor (reference item 12) surrounded by a glass melt (reference item 14B) which functions as an insulator. The sensor has a receiving part (reference item 310) for receiving information from a subject; e.g., a pressure, and outputting the information to as another information; e.g., a signal. The receiving part is formed on the end face of the sensor.

3. With regard to claim 39 it is noted that claims 1 and 40 do not require n-a light sensor having a n-type semiconductor, a p-type semiconductor layer, and a transparent electrode coating on the p-type semiconductor layer.

4. With regard to claim 40 it is noted that claims 1 and 39 do not require a microsyringe having plural linear bodies and multifunctional end face having a high-density sensor array.

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to David A. Rogers whose telephone number is (571) 272-2205. The examiner can normally be reached on Monday - Friday (0730 - 1600). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron E. Williams can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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6. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David Rogers/
Examiner - Group Art Unit 2856



HEZRON WILLIAMS
SUPERVISORY PATENT EXAMINER
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